

**Subject : Computer Architecture & Operating System**

Day : Thursday  
Date : 02/06/2016



Time : 10.00 AM TO 1.00 PM  
Max Marks : 80 Total Pages : 1

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**N.B.:**

- 1) Attempt **ANY FIVE** questions from Section – **I**.
  - 2) Attempt **ANY TWO** questions from Section – **II**.
  - 3) Figures to the right indicate **FULL** marks.
  - 4) Answers to both sections should be written in **SAME** answer book.
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**SECTION - I**

- |            |  |             |
|------------|--|-------------|
| <b>Q.1</b> | Explain characteristics and CICS & RISC.                                 | <b>(10)</b> |
| <b>Q.2</b> | Describe CPU – control register organization with neat diagram.          | <b>(10)</b> |
| <b>Q.3</b> | What is cache memory? Explain working of cache memory with neat diagram. | <b>(10)</b> |
| <b>Q.4</b> | Differentiate Hardwired and micro programmed Control Unit.               | <b>(10)</b> |
| <b>Q.5</b> | What is interrupt? Explain priority interrupt.                           | <b>(10)</b> |
| <b>Q.6</b> | What is segmentation? Explain segmentation with neat diagram.            | <b>(10)</b> |
| <b>Q.7</b> | Write short notes on <b>ANY TWO</b> of the following:                    | <b>(10)</b> |
|            | a) Address sequencing  |             |
|            | b) Instruction formats   |             |
|            | c) Deadlock  |             |

**SECTION - II**

- |             |  |             |
|-------------|--|-------------|
| <b>Q.8</b>  | What is Operating System? Describe structure of operating system. Explain various types of operating system with suitable example. | <b>(15)</b> |
| <b>Q.9</b>  | What is process management? Explain various process management scheduling algorithms with suitable examples.                       | <b>(15)</b> |
| <b>Q.10</b> | What is DMA? Explain various modes of DMA with neat diagram.   | <b>(15)</b> |

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